

## ABSTRACT OF THE INVENTION

[00128]           The present invention provides a system and method for establishing an inverse multiplexed connection using layer one resources dedicated to a carrier virtual network. A plurality of links may be identified that when combined will meet the service level requirements for a connection. The plurality of links may be aggregated at their termination point. The plurality of links may be further aggregated by a carrier virtual network manager. Alternative links may be identified and aggregated if any of the plurality of links become impaired.